12/15/03



Dkt. No. 03818/1200029-US2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Dieter Soll

Serial No.:

10/661,399

Filed:

September 12, 2003

For:

GLUTRNAGLN AMIDOTRANSFERASE - A NOVEL ESSENTIAL

TRANSLATIONAL COMPONENT

December 11, 2003

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted in accordance with 37 C.F.R. 1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

- 1. This IDS should be considered, in accordance with 37 C.F.R. 1.97, as it is filed: (Check one of the boxes A-D)
- [X]A. Within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.
- [] B. before the mailing date of a first office action on the merits, or a first office action after filing a request for continued examination.
- [] C. after (A) and (B) above, but before the mailing date of a final rejection, a notice of allowance, or any other action that closes prosecution, and Applicants have made the necessary statement in box "i" below or paid the necessary fee in box "ii" below.

(check one of the boxes "i" and "ii" below:)

- [] i. Counsel states that, upon information and belief, each item of information listed herein was either (a) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
- [] ii. A check for the fee set forth in 1. 17(p), presently believed to be \$180, is enclosed.
- [] D. after (A), (B) and (C) above, but before payment of the issue fee: Counsel states that, upon information and belief, each item of information listed herein was either (i) cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS; or (ii) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was not known to any individual designated in 1.56(c) more than three months prior to the filing of this IDS.
 - [] i. A check for the fee set forth in 1.17 (p), presently believed to be \$180, is enclosed.
- 2. In accordance with 37 C.F.R. 1.98, this IDS includes a list (e.g., form PTO-SB/08) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

(check boxes A and/or B and fill in blanks, if appropriate.)

- [] A. Document(s) ______ is (are) deemed substantially cumulative to document(s) ______, and, in accordance with 1.98(c), only a copy of each of the latter documents is enclosed.
- [X] B. Certain documents were previously cited by or submitted to the Office in the following prior applications, which are relied upon under 35 U.S.C. 120:

09/355,622, filed September 23, 1999.

Applicant Identifies these documents by attaching hereto copies of the forms PTO-892 and PTO-SB/08 from the files of the prior application(s) or a fresh PTO-SB/08 listing these documents, and request that they be considered and made of record in accordance with 1.98(d). Per 37 CFR 1.98(d), copies of these documents need not be filed in this application.

[] 3. Document Nos. _____ are not in the English language. In accordance with 1.98(c), Applicant states:

[] An English translation of each documen	t (or of the pertinent portions
thereof), or a copy of each corresponding	ng English-language patent or
application is enclosed.	'. fr
[] A concise explanation of the relevance of in the attached search report (see MPEP § 6	
[] A concise explanation of the relevance of o	document(s) is set
forth as follows: [Insert concise explanation	n of relevance
[] A concise explanation of the relevance	
found on pages of the specific	
[] A concise explanation of document(s) attached sheet.	can be found on the
[] 4. No explanation of relevance is necessary for docume	nts in the English language (see
MPEP § 609 A(3)).	
[] 5. Other information being provided for the examiner's of	consideration follows:
6. In accordance with 37 C.F.R. 1.97(g) and (h), the fil	ling of this IDS should not be
construed as a representation that a search has been made or	that information cited is, or is
considered to be, material to patentability as defined in §1.56 (·
listed or attached is (or constitutes) prior art. Unless other-wise in	•
indicated for an item is taken from the face of the item and Appli	• • • • • • • • • • • • • • • • • • •
that the date of publication is in fact different.	
CROSS REFERENCE UNDER 37 C.F.R. §1.78 TO REL	ATED APPLICATIONS
Pursuant to 37 C.F.R. § 1.78, Applicant notes that the abo	****
may be related to the following U.S. Patent Applications:	To ruemmon parom approamon
(1) U.S. Patent Application Serial No, filed	
Early and favorable consideration is earnestly solicited.	 ·
Daily and lavorable consideration is earliestly solicited.	
Respectfully submitte	ed,
Pily	7

DARBY & DARBY P.C. 805 Third Avenue New York, N.Y. 10022 (212) 527-7700 S. Peter Ludwig
Registration No. 25,351
Attorney for Applicant(s)



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449A/B/PTO				Complete if Known		
				Application Number	10/661,399	
11	IFORMATION	l DI	SCLOSURE	Filing Date	September 12, 2003	
S	TATEMENT B	3Y /	APPLICANT	First Named Inventor	Dieter Soll	
				Art Unit	N/A	
(Use as many sheets as necessary)				Examiner Name	Not Yet Assigned	
Sheet	1	of	2	Attorney Docket Number	03818/1200029-US2	

U.S. PATENT DOCUMENTS							
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where		
	No.1	Number-Kind Code ² (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear		
	AA**	US-6,136,560-B1	10-24-2000	Black et al.			
	AB**	US-6,150,340-B1	11-21-2000	Black et al.			
	AC**	US-6,171,838-B1	01-09-2001	Black			
	AD**	US-6,200,774-B1	03-13-2001	Black et al.			
	AE**	US-6,207,647-B1	03-27-2001	Black et al.			
	AF**	US-6,248,557-B1	06-19-2001	Black et al.			

·	FOREIGN PATENT DOCUMENTS								
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	\Box			
Initials*	No.1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear				
	BA**	EP-0 191 221-A1	08-20-1986			Н			
	BB**	EP-0 786 519-A2	07-30-1997			П			
	BC**	EP-0 857 786-A1	08-12-1998			П			
	BD**	EP-0 863 207-A1	09-09-1998						
	BE**	EP-0 857 785-A1	08-12-1998			П			

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		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	2		
	CA**	Curnow, AW et al. tRNA-dependent asparagine formation. Nature. 382(6592):589-590 (1996)			
	CB**	Curnow, AW et al. Glu-tRNA Glu amidotransferase: A novel heterotrimeric enzye required for correct decoding of glutamine codons during translation. Proc. Natl. Acad. Sci. (USA) 94(22), pp. 11819-11826.			
CC** Curnow, AW et al. rRNA-dependent amino acid transformations. Nucleic Acids Symposium Series 36 (Symposium on RNA Biology, II, RNA: Tool and Target) 36:2-4 (1997).					
	CD**	Jahn, D. et al. Purification and Functional Characterization of the Glu-RNA GLN Amidotransferase from Chlamydomonas reinhardtii. J. Biol. Chem 265(14): 8059-8064. (1990)			
	CE**	Kim, SI et al. EMBL Accession No. U49790. Bacilus subtilis PET112-like protein gene, complete cds. Submitted (Feb. 22, 1996).			
	CF**	Schon, A. et al. Protein biosynthesis in organelles requires misaminoacylation of tRNA. Nature. 331(6152): 187-190. (1988)			
	CG**	Strauch, MA et al. Characterization of the Glutamyl-tRNA ^{GIn} -toGlutaminyl-tRNA ^{GIn} Amidotransferase Reactin of Bacilus subtilis. J. Bacteriol., 170(2):916-920. (1988)			
	CH**	Tabata, S. EMBL Accession No. D90907. Synechocystis sp. PCC6803 complete genome. Submitted (June 28, 1996).			
CI** Wengender, PA et al. Identification of a PutP Proline Permease Gene Homolog fro Stephylococcus aureus by Expression Cloning of the High-Affinity Proline Transpo					
Examiner Signature		Date Considered			



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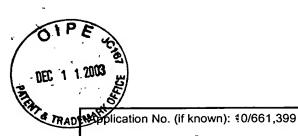
Substitute for form 1449A/B/PTO				Complete if Known		
				Application Number	10/661,399	
II.	NFORMATION	1 DI	SCLOSURE	Filing Date	September 12, 2003	
S	TATEMENT E	3Y /	APPLICANT	First Named Inventor	Dieter Soll	
				Art Unit	N/A	
	(Use as many sh	eets as	necessary)	Examiner Name	Not Yet Assigned	
Sheet	2	of	2	Attorney Docket Number	03818/1200029-US2	

		Escherichia coli. Appl. Env. Microbiol. 61(1):252-259. (1995).	
- (CJ**	Wilcox, M et al. Transfer RNA As A Cofactor Coupling Amino Acid Synthesis with that of Protein, Proc. Natl. Acad. Sci. (USA). 61:229-236 (1968).	
(CK**	Wilcox, M. Gamma-glutamul phosphate attached to glutamine-specific tRNA. A precursor of glutaminyl-tRNA in Bacillus subtilis. Eur J. Biochem. 11(3):405-12 (1969).	
(CL**	Wilcox M. Gamma-phosphoryl ester of glu-tRNA-GLN as an intermediate in Bacillus subtilis glutaminyl-tRNA synthesis. Cold Spring Harb. Symp. Quant. Biol. 34:521-528 (1969)	
	CM**	Curnow, A. W. et al., "Bacillus subtilis Glu-tRNA ^{GIn} amidotransferase subunits C (gatC), A (gat A) and B (gatB) genes complete cds." EMBL Accession No. AF008553, 18 November 1997.	
(CN**	Kos, T. et al., Abstract: "Nucleotide sequence of the Aspergillus niger trpC gene: structural relationship with analogous genes of other organisms," Curr. Genet. 13(2):137-144 (1988).	
	CO**	Walker, M.S., et al., Abstract: "Deletion Analysis of Domain Independence in the TRP1 Gene Product of Neurospora Crassa", Mol Gen Genet., 223(1):49-57 (1990).	
	CP**	Zalkin, H., "The Amidotransferases", Advances in Enzymology and Related Areas of Molecular Biology 66, A Meister, Ed., pp. 203-205 and 282-287 1993.	
	CQ**	Zalkin, H., "Glu-tRNAGIn amidotransferase" Methods in Enzymol. Vol. 13 Glutamate, Glutamine, Glutathione, and Related Compounds, A. Meister, Ed., 113:303-305 (1985).	
	CR	Kim, Sung-II, et al., "A Nuclear Genetic Lesion Affecting Saccharomyces cerevisiae Mitochondrial Translation Is Complemented by a Homologous Bacillus Gene", Journal of Bacteriology, Sept. 1997, Vol. 179, No. 17, pp. 5625-5627.	
	CS	Curnow, Alan W., et al., "Glutamyl-tRNA ^{GIn} amidotransferase in Deinococcus radiodurans may be confined to asparagine biosynthesis", Proc. Natl. Acad. Sci., USA Vol. 95, pp. 12838-12843, October 1998.	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. **CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (**) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filling date under 35 U.S.C. 120.

Examiner	Date
Signature	Considered

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.



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Information Disclosure Statement (4 pages)

Form PTO SB/08 (2 pages)

Two (2) documents